



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/698,900	10/31/2003	Richard Ortiz	200312283-1	2628

22879 7590 12/07/2005

HEWLETT PACKARD COMPANY
P O BOX 272400, 3404 E. HARMONY ROAD
INTELLECTUAL PROPERTY ADMINISTRATION
FORT COLLINS, CO 80527-2400

EXAMINER

AUVE, GLENN ALLEN

ART UNIT PAPER NUMBER

2111

DATE MAILED: 12/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/698,900	Applicant(s) ORTIZ ET AL	
	Examiner Glenn A. Auve	Art Unit 2111	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-21 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 31 October 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>6/7/2005</u> . | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Specification

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Objections

2. Claim 11 is objected to because of the following informalities: in claim 11, line 2, "closes" should be "close". Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1,2,4-8,10-16, and 18-21 are rejected under 35 U.S.C. 102(e) as being anticipated by Felsman, U.S. Pat. No. 6,950,952 B2.

As per claim 1, Felsman shows a method for providing protected swapping of a peripheral component in a computer system comprising: determining a position of a first mechanical retention latch (fig.4,(410)), said first mechanical retention latch having an open position and a closed position and configured to communicatively couple to a computer expansion card slot; provided said first mechanical retention latch is in said open position, filtering power management events including preventing said computer system from powering up (440); and provided said first mechanical retention latch is in said closed position, allowing

Art Unit: 2111

said computer system to accept power management events (460). Felsman shows all of the steps recited in claim 1.

As for claim 2, the argument for claim 1 applies. Felsman also shows that said position is determined from said first mechanical retention latch configured to communicatively couple to a peripheral component interconnect slot (col.3, line 59-col.4, line 7 and wherein the slots involved in Felsman are cPCI). Felsman shows all of the steps recited in claim 2.

As for claim 4, the argument for claim 1 applies. Felsman also shows powering down said computer system to a sleep mode before determining a position of said first mechanical retention latch (fig.4). Felsman shows all of the steps recited in claim 4.

As for claim 5, the argument for claim 1 applies. Felsman also shows hot swapping an expansion card from said expansion card slot and determining said position of said first mechanical retention latch (col.5, lines 22-32). Felsman shows all of the steps recited in claim 5.

As for claim 6, the argument for claim 1 applies. Felsman also shows determining a position of a second mechanical retention latch wherein provided said first or said second mechanical retention latch are in said open position, filtering said power management events (cols. 3-4 as above). Felsman shows all of the steps recited in claim 6.

As for claim 7, the argument for claim 6 applies. Felsman also shows that said power management events include powering up said computer system from a sleep mode (fig.4). Felsman shows all of the steps recited in claim 7.

As per claim 8, Felsman shows a system for managing power in a computer system comprising: a mechanical retention latch (230) having an open position and a closed position configured to physically retain an expansion card in an expansion card slot; a position sensor for determining if said mechanical retention latch is in said open position or in said closed position (cols. 3-4 as above); and a power management events filter for filtering data based on

Art Unit: 2111

said position of said mechanical retention latch wherein if said mechanical retention latch is in said open position, said power management events filter filters said data to prevent powering up said computer system (cols. 3-4 and fig.4 as above). Felsman shows all of the elements recited in claim 8.

As for claim 10, the argument for claim 8 applies. Felsman also shows that said mechanical retention latch is coupled to a peripheral component interconnect card slot (col.3, line 59-col.4, line 7 and wherein the slots involved in Felsman are cPCI). Felsman shows all of the elements recited in claim 10.

As for claim 11, the argument for claim 10 applies. Felsman also shows that said mechanical retention latch is configured to automatically closes when a peripheral component interconnect card is fully inserted in said peripheral component interconnect card slot (col.5, lines 29-31). Felsman shows all of the elements recited in claim 11.

As for claim 12, the argument for claim 8 applies. Felsman also shows that provided said mechanical retention latch is in said closed position, said power management module allows said computer system to accept power management events (fig.4). Felsman shows all of the elements recited in claim 12.

As for claim 13, the argument for claim 8 applies. Felsman also shows a plurality of mechanical retention latches and a plurality of corresponding position sensors configured such that provided one of said plurality of mechanical retention latches is in said open position, said power management events filter filters said data to prevent powering up said computer system (fig.2,(230)). Felsman shows all of the elements recited in claim 13.

As for claim 14, the argument for claim 13 applies. Felsman also shows that said computer system is prevented from powering up from a sleep mode (fig.4). Felsman shows all of the elements recited in claim 14.

As per claim 15, Felsman shows a computer readable medium comprising executable instructions which, when executed in a processing system, causes the system to perform a method of controlling power management events comprising: receiving data corresponding to the position of a mechanical retention latch having an open position and a closed position; and provided said mechanical retention latch is in said open position, filtering power management events and preventing said processing system from accepting power management events (fig.4). Felsman shows all of the elements recited in claim 15.

As for claim 16, the argument for claim 15 applies. Felsman also shows that said position is determined from said mechanical retention latch configured to communicatively couple to a peripheral component interconnect slot (col.3, line 59-col.4, line 7 and wherein the slots involved in Felsman are cPCI). Felsman shows all of the elements recited in claim 16.

As for claim 18, the argument for claim 15 applies. Felsman also shows that said method is executed while said processing system is in a sleep mode (fig.4). Felsman shows all of the elements recited in claim 18.

As for claim 19, the argument for claim 15 applies. Felsman also shows that said method is executed while hot swapping a component of said processing system (col.5, lines 22-32). Felsman shows all of the elements recited in claim 19.

As for claim 20, the argument for claim 15 applies. Felsman also shows that said method further comprises: receiving data corresponding to a plurality of mechanical retention latches provided one of said plurality of mechanical retention latches is in said open position, filtering power management events and preventing said processing system from powering up (cols. 3-4 as above). Felsman shows all of the elements recited in claim 20.

As for claim 21, the argument for claim 20 applies. Felsman also shows that said power management events include powering up said computer system from a sleep mode (fig.4). Felsman shows all of the elements recited in claim 21.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

7. Claims 3,9, and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Felsman in view of Grosser et al., U.S. Pat. No. 6,182,173 B1.

As for claims 3,9, and 17, the arguments above for claims 1,8, and 15, respectively, apply. Felsman does not specifically show receiving data from an optical device communicatively coupled to said first mechanical retention latch for determining said position of said first mechanical retention latch. Felsman does show mechanical latches 230 and detecting the position of those latches. Grosser shows the use of an optical switch used to detect the position of a mechanical tab mechanism to determine whether it is in an open or closed position (abstract and claim 2). It would have been obvious to one of ordinary skill in the art at the time of the invention to use an optical switch as shown by Grosser in the system of Felsman in order to provide a fast and reliable switch/detector system.

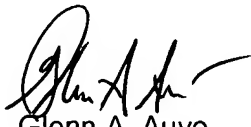
Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The other cited references deal with hot-plugging cards in a computer. Particular attention is directed to the Fomso reference cited by applicant which appears to clearly show controlling power and power events in a computer system depending on whether or not a card is plugged into the PCI slots.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Glenn A. Auve whose telephone number is (571) 272-3623. The examiner can normally be reached on M-F 8:00 AM-5:30 PM, every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on (571) 272-3632. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Glenn A. Auve
Primary Examiner
Art Unit 2111